



## PATENT ABSTRACTS OF JAPAN

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(54) BAR CODE READER

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(57) Abstract:

PROBLEM TO BE SOLVED: To obtain the bar code reader with an automatic focus switching device which is inexpensive and can performs a process in a short time.

SOLUTION: This device has a frame memory 7 as a memory array which stores a bar code picked up by a solid image pickup means 4 through an optical system 3, and an automatic focus switching means (automatic focusing part 9, an automatic zooming part 10, a controller 12, and a lens actuator 13) which automatically switch the focal length between the bar code and a device main body. The automatic focal length switching means recognizes a bar code symbol from luminance information on an arbitrary line of the memory array to determine a focal length switching ratio according to the size of the bar code, and then switches the focal length.

